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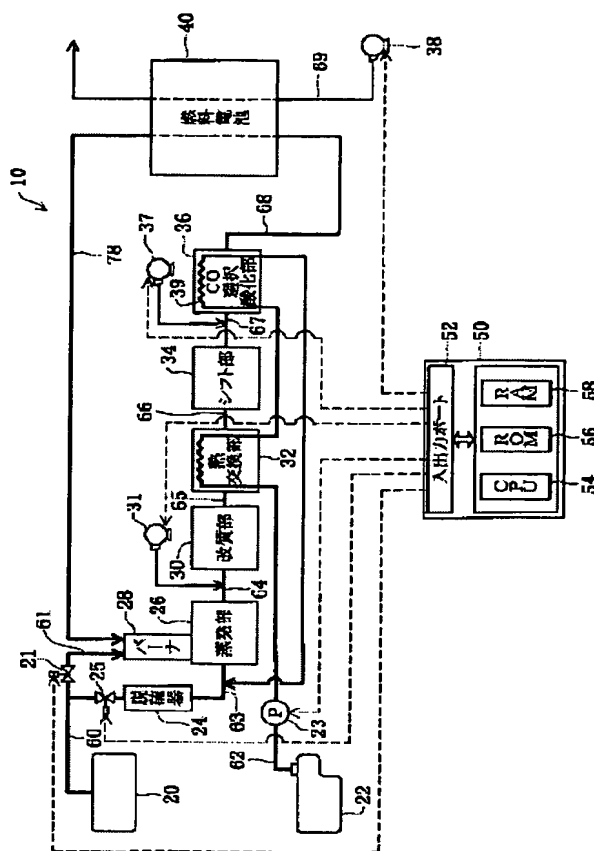
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APPLICANT : TOYOTA MOTOR CORP:

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TITLE : FUEL REFORMER AND METHOD OF MANUFACTURING HYDROGEN



ABSTRACT : **PROBLEM TO BE SOLVED:** To provide a cooling method for keeping activity of reaction sufficiently in a selective oxidation part of carbon monoxide.

SOLUTION: A fuel cell 10 supplies water stored in water tank 22 to evaporating part 26 through a water stream route 62 via a way of a heat exchanging part 32 and a heat exchanging part 39. At the heat exchanging part 32, the water passing in the water stream route 62 raises its temperature by exchanging heat with hydrogen rich gas discharged from the reformer 30, is made in a two phase state of vapor and liquid. The water temperature raised up at the heat exchanging part 32 cools the selective CO oxidation part 36 by passing through the heat exchanging part 39 and keeps temperature of selective oxidation catalyst of carbon monoxide provided in the selective CO oxidation part 36 in the desirable temperature range of 100°C or more.

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